

# INFRARED EMISSIONS SENSOR

## Abstract

13A control keypad assembly that employs an infrared transmitter and receiver to detect the presence of a human body and control a variety of output devices. The control circuit requires that the infrared receiver and the infrared transmitter be housed in separate switch button to eliminate the false triggering caused by other heat-emitting devices and by spurious reflections. By separating the two infrared sensor components, the control circuit is only triggered when the receiver component receives a reflection from the transmitter component. This triggering allows the backlight of the control keypad assembly to illuminate the face of the keypad and the variety of buttons on its face, as well as control a variety of other output devices.